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ABSTRACT

N-ALKYL AMMONIUM ACETONITRILE SALTS, METHODS THEREFORE AND COMPOSITIONS THEREWITH

Substantially solid compositions are provided having therein a compound with the structure of Formula I

FORMULA I

$$\begin{array}{c}
R_1 \\
N_1 \\
\end{array} = CR_2R_3C = N \cdot Y^{\Theta} \cdot ZH_2O$$

wherein A is a saturated ring formed by a plurality of atoms in addition to the N_1 atom, the saturated ring atoms including at least one carbon atom and at least one of O, S, and N atoms, the substituent R, bound to the N₁ atom of the Formula I structure including either (a) a C₁₋₂₄ alkyl or alkoxylated alkyl where the alkoxy is C_{2-4} , (b) a C_{4-24} cycloalkyl, (c) a C_{7-24} alkaryl, (d) a repeating or nonrepeating alkoxy or alkoxylated alcohol, where the alkoxy unit is C_{2-4} , or (e) $-CR_2R_3C\equiv N$ where R_2 and R_3 are each H, a C_{1-24} alkyl, cycloalkyl, or alkaryl, or a repeating or nonrepeating alkoxyl or alkoxylated alcohol where the alkoxy unit is C2-4, the R2 and R3 substituents being each H, a C1-24 alkyl, cycloalkyl, or alkaryl, or a repeating or nonrepeating alkoxyl or alkoxylated alcohol where the alkoxy unit is C_{2-4} , Z is a value in the range of 0 to 10, and wherein Y is monovalent or multivalent and is sulfate, bisulfate, tosylate, or mixtures of sulfate and bisulfate as counterion. These compositions have reduced water uptake due to the Formula I compound. The compositions are particularly well suited to bleaching and cleaning compositions formulated to include a source of active oxygen.